

CLIMATOLOGICAL DATA FOR DECEMBER, 1912.

DISTRICT No. 3, OHIO VALLEY.

Prof. FERDINAND J. WALZ, District Editor.

GENERAL SUMMARY.

The weather prevailing during December, 1912, in the Ohio Valley, was unusually mild and pleasant for the season of the year and remarkable on account of the absence of severe storms and harsh, wintry conditions common to December. There was only one general snow of consequence and only two cold periods, and at only a few stations did the temperature go below zero. In the sections north of the Ohio River and in Pennsylvania and West Virginia, the month takes rank among the mildest Decembers on record and, except December, 1911, the warmest since 1891.

Precipitation was decidedly deficient in the Wabash River Basin of Illinois and Indiana, much in excess in the Tennessee River Basin of western Tennessee and northern Alabama, and about normal or ample in all other sections. There was little or no snow covering, but the need of it was not felt to any great extent. During the first week there was much warm, rainy weather and from the 9th to the 12th it was quite cold, but on the whole the month was unusually favorable for outdoor employment and for the prosecution of building operations and general construction work, also for the gathering of the remainder of the corn crop. At the close of the month dirt roads were reported generally as excellent, being an exceedingly uncommon condition at that time of the year.

The following table summarizes the chief features of meteorological interest for the several sections of the district:

Portions of States included in the Ohio River Basin.	Temperature.				Precipitation.							
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest monthly.	Least monthly.	Greatest in 24 hours.	Average number of days.	Average snow-fall.	
New York.....	31.9	+5.9	62	7	2.91	.....	3.26	2.56	0.95	15	10.3	
Pennsylvania.....	34.3	+3.6	67	3	2.74	-0.50	4.72	1.70	1.24	11	7.4	
Maryland.....	32.4	+3.8	62	-10	3.51	-0.28	3.76	3.36	1.00	9	15.2	
West Virginia.....	35.8	+2.2	76	-6	2.92	-0.40	5.55	1.67	1.98	10	6.8	
Ohio.....	34.3	+2.6	74	-5	2.46	-0.38	4.26	0.96	2.00	8	3.4	
Indiana.....	34.7	+2.7	68	2	1.50	-1.39	3.26	0.52	1.00	6	1.8	
Illinois.....	35.6	+2.9	64	3	1.18	-1.52	2.82	0.43	0.96	6	0.9	
Kentucky.....	37.2	+0.8	73	5	3.98	+0.13	6.81	2.12	2.13	9	5.2	
Tennessee.....	40.0	+0.7	71	2	5.60	+1.20	8.61	1.95	2.55	10	1.2	
Alabama.....	41.2	-0.9	72	14	6.91	+2.40	9.33	5.51	2.49	13	0.0	
Georgia.....	42.4	+1.4	66	19	4.61	-0.97	.....	.....	1.10	12	0.0	
North Carolina.....	39.1	+1.7	71	6	3.24	-1.22	7.11	0.90	1.70	9	1.1	
Virginia.....	35.2	+0.7	73	-6	2.94	-0.57	5.87	1.27	1.66	9	3.8	

TEMPERATURE.

The month opened unseasonably warm and through the first week the weather was generally warm and rainy, mean daily temperatures ranging from 5° to 20° above normal and maximum temperatures registering in the

60's and 70's in all parts of the district. A change to colder set in about the 7th, and in most sections from the 8th to the 13th the coldest weather of the month was experienced, the lowest temperatures as a rule being registered on the 11th, 12th, or 13th. The temperature did not go to zero or below, however, except at two stations, one in Ohio and the other in southwestern Virginia, the lowest being -5° at Bellefontaine, Ohio. This cold period was followed by abnormally warm weather extending from the 14th to the 20th and which in turn was succeeded by a period of moderately cold weather. This second cold spell extended in varying degree until the 26th or 27th, and while over the major portion of the district temperatures did not get as low as they had been earlier in the month, yet at many stations in the more easterly portions of the district south of Pennsylvania the lowest temperature of the month was reached on the 25th or 26th. Also on the 26th the lowest temperature of the month for the entire district, -10°, was registered at Oakland, Md. One other station in western Maryland, three in West Virginia, and one in southwestern Virginia reported minimum temperatures ranging from 0° to -8° at that time. All of these stations, however, except two in West Virginia are at an elevation of over 2,000 feet.

Temperatures were considerably above normal generally at the close of the month. The only section where the temperature of the month averaged below normal, was northern Alabama. In all other sections average temperatures were above normal, the excess increasing northward and eastward.

PRECIPITATION.

Precipitation was fairly well distributed through the month, except that the larger portion of the total amounts occurred during the first week, the 17-19th, 26th-27th, and the 29th-30th, and nearly all the snow in the snow-storm of the 23d-24th. There was a fairly heavy fall of snow, however, in Indiana, Ohio, and western Pennsylvania on the 18th-19th.

The total precipitation for the month ranged from less than 1 inch in the Wabash section of Illinois and central Indiana to over 9 inches in northwestern Alabama. It averaged above normal only in central and southern Kentucky, Tennessee, and Alabama, while the greatest deficiency was in Illinois and Indiana. Over the remainder of the district it was near normal, or at least ample, the monthly amounts ranging mostly between 2 and 4 inches.

SNOWFALL.

The total snowfall for the month was considerably less in all parts of the district than usually expected in the month of December. There was little or none in the

extreme southerly portion of the district and very little more than flurries over the larger portion of Illinois. Over the rest of the district the amounts ranged from 1 to 16.3 inches, the larger amounts occurring in the mountain sections of Pennsylvania and West Virginia and over Kentucky. Elsewhere, as a rule, the snowfall was largest in sections more nearly bordering the Ohio River.

MISCELLANEOUS.

Thunderstorms occurred in Tennessee on the 4th, 5th, 18th, and 27th; in Kentucky on the 5th, and in West Virginia on the 18th. At Camden, Benton County, Tenn.,

hail to an average depth of several inches, and from 6 to 10 inches in drifts, occurred on the 18th; also lightning struck a large shade tree in the yard of a resident, completely destroying the tree and injuring several persons.

Rivers.—Heavy rains during the first week caused a temporary rise of 10 to 16 feet in the Cumberland River; also a moderate stage of water in the Tennessee River, and good navigable stages obtained in that river the remainder of the month. There was a moderate rise in the streams of western Pennsylvania about the 7th-8th, and they remained quite steady at a moderate stage the rest of the month. Over the remainder of the district the rivers and streams were at low stages.

TABLE 1.—*Climatological data for December, 1912. District No. 3, Ohio Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Trai.	Departure from the normal.	Greatest in 24 hours.								
<i>New York.</i>																					
Allegany.	Cattaraugus.	1,441	6	32.8		62	6	7	9	39	3.26		0.35	12.7	15	5	8	18	w.	Charles E. Whitney.	
Bolivar.	Allegany.	1,800	18	31.0	+ 5.9	60	6	8	9	32										Dr. C. F. Hoffman.	
Olean.	Cattaraugus.	1,402	4							2.56		0.70	7.9	15						John W. Alles.	
<i>Pennsylvania.</i>																					
Aleppo.	Green.	1,135	11	35.4	+ 4.6	63	5†	8	13†	36	2.81	- 0.44	1.00	8.0	7	12	4	15	sw.	J. S. Hinerman.	
Baldwin.	Butler.	1,404	6	31.7*		60	6	8	13	27*	1.70	- 0.57	0.61	4.0	7	8 ^a	2 ^a	20	w.	S. H. Templeton.	
Beaver Dam.	Beaver.	674	18								2.10	- 0.93	0.85			12	8	2	21	U. S. Engineer.	
Brookville.	Jefferson.	1,173	21	34.6		67	6	-3	13	45	2.14	- 0.93	0.85							H. C. Bartholomew.	
Clarion.	Clarion.	1,078	27								2.50	- 0.84	0.60	12.6	13	5	0	26	w.	J. A. Miller.	
Claysville.	Washington.	1,127	8	36.2		63	6	9	13†	35	2.71	- 1.07	0.77	5.0	6	11	9	11	w.	E. T. Buchanan.	
Confluence.	Somerset.	1,352	28								2.48	- 1.07	0.62			10	13	2	16	Grant Pyle.	
Franklin.	Venango.	955	38	33.0	+ 4.3	67	3	11	23	33	3.33	- 0.05	0.93	4.2	13	8	2	21	w.	F. E. Dixon.	
Freeport.	Armstrong.	772	39								3.56	+ 0.11	1.24	9.2	13	8	3	20		Mrs. Anna R. Burtner.	
Greensboro.	Green.	708	23								2.76	- 0.24	0.60	7.0	12	12	5	14	sw.	James G. Cramer.	
Greenville.	Green.	950	16	32.8	+ 1.8	61	6	8	13	32	3.01	+ 0.21	0.84	7.2	10	8	5	18	sw.	A. M. Orr.	
Indiana.	Indiana.	1,350	15	34.9	+ 5.2	64	6	8	13	28	2.42	- 1.13	0.90	6.0	10	7	10	14	s.	R. W. Wehrle.	
Johnstown.	Cambridge.	1,184	24	36.0	+ 3.3	66	6	10	26	38	3.33	- 0.38	0.63	11.4	16	5	10	16	sw.	E. C. Lorentz.	
Lock No 4.	Washington.	718	26								2.23	- 0.66	0.69	4.5	9	1	15	15	sw.	R. T. McGowan.	
Lycippus.	Westmoreland.	1,420	20	36.2	+ 3.9	61	6	10	13	27	2.92	- 0.64	0.60	10.4	10					Murray Forbes.	
Mosgrove.	Armstrong.	775	1								3.13	- 0.53	1.03	2.6	13	7	0	24	sw.	C. J. Moore.	
Pittsburgh.	Allegheny.	842	42	35.8	+ 1.1	62	6	12	12	28	2.86	+ 0.13	1.13	5.1	14	6	13	12	sw.	U. S. Weather Bureau.	
Saegerstown.	Crawford.	1,116	21	32.1	+ 3.3	57	6	7	23	31	2.71	- 0.69	0.80	8.5	11	0	3	28	sw.	J. G. Apple.	
Sharon.	Mercer.	940	1	34.4							69	11	13	29	13					Norman S. Powell.	
Skidmore.	Lawrence.	1,000	8	32.0							60	6	6	13	28					W. H. Stoner.	
Somerset.	Somerset.	2,250	56	32.8	+ 4.1	60	6	6	12	37	4.72	+ 0.64	0.89	13.8	11	0	14	15	nw.	W. M. Schrock.	
Unington.	Fayette.	999	24	38.0	+ 3.0	67	6	12	12†	34	2.08	- 1.68	0.51	4.5	7	11	6	14	sw.	Wm. Hunt.	
Warren.	Warren.	1,137	23	32.4	+ 4.6	63	5	10	13†	32	2.68	- 0.70	0.84	8.2	9	7	1	23	nw.	Anna Simpson.	
<i>Maryland.</i>																					
Deer Park.	Garrett.	2,457	18	31.9	+ 4.1	61	6	-8	26	54	3.36	- 0.36	1.00	17.0	7	9	10	12		S. P. Specht.	
Grantsville.	do.	2,351	18	33.0	+ 4.0	60	6	7	12†	39	3.76	- 0.06	1.00	16.3	9	10	11	10	w.	J. S. Miller.	
Oakland.	do.	2,461	12	32.4	+ 3.5	62	6	-10	26	54	3.40	- 0.41	0.70	12.3	11					R. E. Weber.	
<i>West Virginia.</i>																					
Bancroft.	Putnam.	574	10	33.4	- 2.6	74	5	5	13	39	2.90	- 0.04	0.67	6.8	11	16	0	15	ue.	R. E. Dent.	
Beckley.	Raleigh.	2,440	13	35.4	+ 2.3	69	2	5	9†	49	3.43	+ 0.39	1.78	6.0	6	9	3	19	w.	John A. Ewart.	
Bens Run.	Pleasants.	622	10	35.7	+ 2.9	65	6	8	13†	36	3.27	- 0.67	0.72	4.5	10	19	4	8		J. D. Riggs.	
Bluefield.	Mercer.	2,563	17	38.8	+ 4.1	71	5	10	13	40	1.91	- 1.22	0.65		5	16	5	10		Norfolk & Western Ry.	
Buckhannon.	Upshur.	1,472	21	34.6	+ 1.7	70	5	3	26	44	3.38	- 0.61	0.68	7.0	9	19	1	11		H. A. Darnall.	
Cairo.	Ritchie.	667	10	35.8	+ 1.8	68	6	5	13†	36	2.70	- 0.84	0.72	7.6	9	1	11	19	w.	Van A. Zevely.	
Central Station.	Doddridge.	900	11	37.9*		69	5	6	26	40 ^b	2.37	- 0.76	0.80			6 ^b	7 ^b	10 ^b	w.	G. W. Sherwood.	
Charleston.	Kanawha.	598	25	40.0		74	5	5	13	32	2.91	- 0.22	0.56	7.0	13	15	4	12	w.	R. C. Hewes.	
Creston.	Wirt.	612	11	35.3	+ 2.2	70	5	4	25	43	3.44	+ 0.52	0.80	5.5	12	11	5	15	w.	J. M. Reed.	
Cuba.	Jackson.	544	11	36.6	+ 2.9	70	5	5	25	45	3.01	- 0.13	0.80	5.9	9	16	6	16	w.	C. T. Perry.	
Doane.	Wayne.	6	41.6								72	5	23	3.60	9	91	8.0	10	11	10	L. A. Smith.
Elkhorn.	McDowell.	1,933	20	40.2*	+ 3.0	70	5				2.40	- 0.67	0.60	4.5	8	14	4	13	w.	J. J. Lincoln.	
Elkins.	Randolph.	1,940	13	34.2	+ 1.6	71	5	1	26	40	2.87	- 0.55	0.73	10.7	13	9	8	14	w.	U. S. Weather Bureau.	
Fairmont.	Marion.	879	19	34.2		69	5	8	26	37	2.39	- 0.90	0.62	7.0	15	16	2	13	w.	F. P. Hall.	
Glenville.	Gilmer.	738	23	38.0	+ 3.3	75	5	4	25	48	3.27	- 0.37	0.72	6.0	12	15	0	16	w.	Joe N. Craddock.	
Grafton.	Taylor.	985	18	38.0	+ 4.1	70	7	8	13†	43	3.51	+ 0.08	0.68	5.0	11	13	3	15	w.	Joseph Gerken.	
Great Sulphur Springs.	Summers.	1,600	16	34.6	+ 0.7	67	5	5	25	42	1.67	- 0.76	0.72	7.0	7	8	11	6	w.	Arthur George.	
Hinton.	do.	1,400	22	35.6	+ 0.3	68	6	10	13	45	2.54	- 0.18	0.82	5.0	13	14	2	15	w.	J. B. Lavender, C. E. Ferguson.	
Holcomb.	Nicholas.	1	33.6*			74 ^a	5	6	25	44 ^a	2.82	- 0.83	1.55	9	15	9	3	14	w.	L. H. Hutchinson.	
Huntington.	Cabell.	510	18	36.2	+ 2.1	71	5	12	26	35	2.98	- 0.21	0.68	5.0	9	17	0	14	w.	Geo. T. Argabrite.	
Lewisburg.	Greenbrier.	2,200	11	35.2	+ 2.9	67	5	3	26	37	2.78	- 0.01	1.04	3.0	7	20	7	4	nw.	Dr. J. E. McDonald.	
Logan.	Logan.	665	10	40.6	+ 1.7	71	5	12	13	33	3.43	- 1.27	0.85	6.5	12	20	6	5	e.	Allen Smith.	
Lost Creek.	Harrison.	1,033	15	35.5	+ 2.7	70	5	1	26	43	2.86	- 0.57	0.91	6.0	8	16	4	11	w.	S. E. Bradley.	
Madison.	Boone.	704	8																	Jas. A. Morgan.	
Mannington.	Marion.	967	11	35.7	+ 3.7	68	5	0	26	43	3.00	- 0.25	0.69	4.9	12	12	7	12	w.	C. J. McCarty.	
Marietta.	Pocahontas.	2,169	17	28.8	- 1.2	60	5†	6	25	44	4.20	- 1.10	1.70	8.0	9	15	13	3	w.	Horace Atwood.	
Morgantown.	Monongalia.	1,250	36	38.4	+ 4.3	65	5	9	13	30	1.95	- 1.23	0.58	6.0	8	9	9	13	w.	M. L. Brown.	
Moundsville.	Marshall.	640	10	37.7	+ 4.3	66	6	10	13	33	2.60	- 0.49	0.80	3.5	6	15	2	14	sw.	Frank S. Evans.	
New Cumberland.	Hancock.	987	14	35.1	+ 4.7	66	6	21	12	31	2.85	+ 0.41	0.90	2.0	6	7	18	18	sw.	Wm. Ankrum.	
New Martinsville.	Wetzel.	634	18	37.2	+ 2.5	66	6	12	13	37	2.54	- 0.85	1.16	3.5	6	15	6	10	s.	Miss Donna Tully.	
Nuttallburg.	Fayette.	2,252	18	34.8	+ 2.3	62	5	11	23	25	2.91	+ 0.08	1.00	16.0	8	11	5	5	s.	U. S. Weather Bureau.	
Parkersburg.	Wood.	638	25	37.0	+ 1.8	68	5	13	32	2.62	- 0.15	0.72	3.3	13	9	5	17	s.	J. W. Swisher.		
Parsons.	Tucker.	1,662	12	34.																	

TABLE 1.—Climatological data for December, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
Ohio—Continued.																					
Cambridge.	Guernsey.	803	20	33.7	+ 2.5	64	6	7	13	37	3.19	+ 0.01	1.41	3.0	7	16	8	sw.	Samuel Mehaffey.		
Camp Dennison.	Hamilton.	570	19	35.4	+ 2.0	65	5	8	13	33	2.35	- 0.45	0.62	1.0	9	15	11	5	s.	Henry F. Pinkvoss.	
Canal Dover.	Tuscarawas.	884	19	33.8	+ 3.6	60	6	10	12†	32	2.24	- 0.85	0.70	5.0	7	10	13	7	sw.	Ed. S. Slingluff.	
Canton.	Stark.	1,089	29	32.6	+ 1.6	59	6	9	12	30	2.17	- 0.59	0.70	4.1	10	15	2	14	sw.	Carl H. Meyer.	
Cardington.	Morrow.	1,010	17	32.0 ^b	+ 2.8	60 ^b	4†	9 ^b	12†	31 ^b	1.85	- 0.57	0.76	2.4	6	7	0	24	sw.	J. W. Shaw.	
Chillicothe.	Ross.	630	9	33.0	- 0.1	67	5	8	12	37	3.27	- 0.54	2.0	2.0	9	11	7	8	se.	Marion Mackey.	
Cincinnati.	Hamilton.	628	41	37.2	+ 0.8	65	5	13	12	31	2.25	- 0.68	2.67	1.1	9	11	7	13	s.	U. S. Weather Bureau.	
Circleville.	Pickaway.	624	24	36.5	+ 3.8	66	5	10	12†	32	2.56	+ 0.16	0.61	0.2	8	15	5	11	s.	Dr. H. R. Clarke.	
Clarington.	Monroe.	600	9	36.0	- 0.2	66	6	8	12	33	3.31	- 1.00	1.5	10	10	15	16	sw.	Col. S. Tschappat.		
Columbus.	Franklin.	918	34	34.4	+ 1.6	61	5	10	12	32	2.34	- 0.42	0.66	1.3	11	9	8	14	sw.	U. S. Weather Bureau.	
Coshocton.	Coshocton.	770	3	33.7	- 0.1	62	5	8	12	31	2.99	- 0.95	0.76	8	9	8	14	sw.	Mrs. Ada Jeffries.		
Dayton (1).	Montgomery.	899	31	34.4	+ 1.6	62	5	8	12	31	1.96	- 0.66	0.58	3.0	10	9	8	14	sw.	U. S. Weather Bureau.	
Dayton (2).	do.	700	31	35.2	+ 2.1	62	5	9	12	32	2.29	- 0.35	0.81	4.4	7	7	15	w.	Mrs. Edith L. Boyer.		
Delaware.	Delaware.	896	15	32.0 ^b	+ 2.7	59	5	7	12	29	2.19	- 0.30	0.76	8	14	2	15	sw.	DeWitt H. Leas.		
Demos.	Belmont.	1,325	24	34.2	+ 1.8	62	5	7	12	28	3.06	+ 0.20	0.62	5.1	10	11	9	11	s.	J. T. Dysart.	
Dennison.	Tuscarawas.	846	2	35.0	- 0.1	60	5†	9	13	37	4.28	- 0.83	2.7	7	14	6	11	s.	Water Supply Co.		
Gallipolis.	Ross.	745	20	35.2	+ 1.8	65	5	10	12†	33	2.75	+ 0.12	1.00	6	13	2	16	s.	O. A. Cory.		
Garnettsville.	Gallia.	580	580	32.6	+ 3.4	59	5	8	13	31	2.29	- 0.64	0.76	4.5	9	7	10	14	sw.	Samuel F. Neal.	
Portage.	Portage.	1,005	28	32.6	+ 3.4	59	5	8	13	31	2.29	- 0.64	0.76	4.5	9	7	10	14	sw.	S. M. Luther.	
Granville.	Licking.	960	30	31.9 ^a	+ 0.4	60 ^a	1†	9 ^a	12	40 ^a	2.73	- 0.41	0.85	2.0	8	14	3	14	w.	Dr. L. E. Davis.	
Gratiot.	do.	1,000	23	34.0	+ 1.9	60	5†	9	12	32	2.12	- 0.91	0.63	2.8	9	4	13	14	w.	W. B. Longstreth.	
Green.	Adams.	500	19	36.3	+ 1.1	70	5	5	25	37	3.21	- 0.01	1.33	4.0	4	9	5	17	nw.	W. F. Kenyon.	
Green Hill.	Columbiana.	1,135	19	31.9	+ 3.0	59	5†	9	13†	34	2.30	- 0.36	0.68	5.0	9	7	11	13	sw.	Jos. E. Bentley.	
Hamilton.	Darke.	1,060	26	34.0	+ 3.4	61	6	6	12	33	1.72	- 0.74	0.64	3.0	6	7	14	10	w.	Geo. A. Katzenberger.	
Haydenville.	Butler.	601	700	35.2 ^b	- 0.1	67 ^b	5	8 ^b	13	43 ^b	1.54	- 0.68	2.03	0.66	2.0	7	11	7	13	w.	Earl W. Stout.
Hocking.	Hocking.	700	35	32.8	- 0.1	67 ^b	5	8 ^b	13	43 ^b	1.54	- 0.68	2.03	0.66	2.0	7	11	7	w.	H. W. Stiers.	
Hillsboro.	Highland.	1,063	33	32.2	+ 2.3	71	5	10	13	34	2.96	+ 0.13	0.80	5.0	10	16	7	8	sw.	Carey H. Roush.	
Ironton.	Lawrence.	575	29	37.6	+ 2.3	71	5	10	13	34	2.96	+ 0.13	0.80	5.0	10	16	7	8	sw.	James Bull.	
Kenton.	Hardin.	1,015	20	32.2	+ 0.5	59	6	- 1	23	33	2.28	- 0.15	0.87	5.0	6	11	9	11	w.	N. S. Martin.	
Killbuck.	Holmes.	1,087	19	32.2	+ 2.7	57	5	7	12†	31	2.91	+ 0.12	0.90	3.8	8	21	7	3	ne.	John A. Schonauer.	
Kings Mills.	Warren.	640	580	31.7	+ 4.0	62	5†	11	12	28	2.42	- 0.69	0.68	0.5	7	19	2	10	sw.	Frank M. See.	
Lancaster.	Fairfield.	898	17	35.7	+ 4.0	62	5†	11	12	28	2.42	- 0.69	0.68	0.5	7	19	2	10	sw.	R. L. Renshaw.	
McConnellsburg.	Morgan.	710	28	34.8	+ 1.8	64	5	8	13	35	2.87	- 0.07	0.66	2.5	7	16	7	8	sw.	C. H. Morris.	
Marietta.	Washington.	627	92	37.8	+ 3.5	67	5	12	12†	32	2.70	- 0.73	0.63	3.0	9	9	9	13	sw.	Prof. T. D. Biscoe.	
Marion.	Marion.	980	34	33.8	+ 2.9	59	6	7	12	30	2.28	- 0.35	0.65	4.5	7	9	9	13	sw.	Dr. E. H. Raffensperger.	
Milfordton.	Knox.	1,200	20	32.8	+ 4	59	6	6	12	32	1.94	- 1.01	0.58	3.7	6	9	11	11	sw.	L. H. Burgess.	
Milligan.	Ferry.	875	19	34.2	+ 2.3	66	6	5	13	44	2.26	+ 1.32	2.00	4.0	8	7	11	13	sw.	V. C. Eveland.	
Millport.	Columbiana.	1,145	19	32.0	+ 4.0	59	5†	8	13	35	2.34	- 0.45	0.85	3.4	9	2	13	16	sw.	G. F. Copeland.	
Nellie.	Coshen.	850	12	33.3	+ 3.7	60	6	6	13	35	3.37	+ 0.43	1.90	2.0	4	7	17	7	sw.	Ethel L. Gammertsfelder.	
New Berlin.	Stark.	1,100	19	32.4	+ 3.2	58	6	8	12	35	1.85	- 0.55	0.95	3.6	8	10	4	17	sw.	Clayton Holl.	
New Waterford.	Columbiana.	1,053	17	32.6	+ 2.8	59	6	8	13	33	2.54	- 0.93	0.76	4.0	5	5	17	9	sw.	Sam C. Scott.	
Ohio State University.	Franklin.	757	29	34.8	+ 3.2	62	5	9	12	28	3.29	- 0.18	0.72	9	7	14	10	9	s.	Prof. H. C. Lord.	
Oregonia.	Warren.	985	29	34.4	+ 3.3	60	5†	7	12†	31	0.96	- 1.73	0.38	4.5	6	11	7	13	sw.	E. H. Stephens.	
Pataskala.	Licking.	1,015	20	33.2	+ 2.6	60	5†	8	12	34	2.83	- 0.43	0.79	5.0	11	7	15	9	sw.	J. N. Ridenour.	
Peebles.	Adams.	645	1	35.6	- 0.1	69	5	2	12	43	3.79	- 0.87	4.0	10	14	10	7	nw.	Ora O. Smalley.		
Philo.	Muskingum.	1,018	17	35.4	+ 4.0	62	5	9	12	31	2.11	+ 0.69	1.45	2.5	7	9	7	15	sw.	L. C. Burckholter.	
Piqua.	Miami.	847	2	33.7	- 0.1	60	5	6	12	31	1.79	- 0.62	4.20	5	14	4	13	se.	Harry L. Roberts.		
Plattsburgh.	Clark.	1,130	19	34.1	+ 3.3	60	5†	6	12	31	1.91	- 0.92	0.87	4.5	7	12	9	10	sw.	F. E. Stewart.	
Portsmouth.	Scioto.	527	81	36.5	- 0.3	71	5	12	13	33	3.14	- 0.21	1.10	4.5	9	9	1	21	sw.	Dr. H. A. Schirrmann.	
Prospect.	Marion.	909	2	33.7	- 0.1	61	5	6	12	31	1.79	- 0.43	0.79	4.5	6	11	7	15	sw.	Neil J. Gast.	
Sidney.	Shelby.	985	29	34.4	+ 3.3	60	5†	7	12†	31	0.96	- 1.73	0.38	4.5	6	11	7	13	sw.	Hamline B. Blake.	
Somerset.	Perry.	1,080	13	35.1	+ 4.1	62	5†	9	12†	28	2.49	- 0.08	0.83	4.0	9	11	7	13	s.	Miss M. W. C. Sheridan.	
Springfield.	Clark.	980	18	33.7	- 0.1	60	5	8	13	37	2.88	+ 0.32	1.33	2.5	8	12	1	18	sw.	W. A. Webster.	
Summerfield.	Noble.	1,187	6	35.0	- 0.1	64	5	7	13	37	2.69	- 0.76	0.68	3.0	7	10	10	11	w.	H. R. McClinton.	
Thurman.	Syracuse.	583	1	35.4	- 0.1	69	5	10	13†	36	3.14	- 0.78	0.60	3.5	9	10	9	10	w.	Irving R. Karr.	
Toboso.	Gallia.	696	19	38.0	+ 2.9	74	10	8	25	51	2.61	- 0.21	1.38	4.0	4	12	5	14	w.	D. D. Thomas.	
Urbana.	Licking.	1,031	44	33.0	+ 4.3	61	6	5	12	34	1.97	- 1.06	0.65	5.0	8	17	6	sw.	H. A. Albyn.		
Warren.	Champaign.	900	23	33.6	+ 3.7	60	5	10	13	27	2.26	- 0.87	0.99	3.5	9	12	9	10	sw.	Prof. J. H. Williams.	
Waverly.	Trumbull.	590	29	37.4	+ 3.2	67	5	8	13	37	2.88	+ 0.32	1.33	2.5	8	12	1	18	sw.	M. D. McCorkle.	
Waynesville.	Pike.	700	27	34.5	+ 3.8	63	5	8	12	31	2.02	- 0.70	0.68	1.0	6	14	7	10	sw.	Dr. Perry Hutt.	
Wooster.	Warren.	1,030	33	32.9	+ 2.1	58	6	8	12	30	2.35	- 0.31	0.68	3.5	8	7	6	18	sw.	Charles Michener.	
Youngstown.	Mahoning.	846	19	33.0	+ 2.1	60	5	7	12	32	1.20	- 1.47	0.45	0	7	17	2	12	sw.	Experiment Station.	
Zanesville.	Muskingum																				

TABLE 1.—Climatological data for December, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Indiana—Continued.</i>																				
Mauzy.	Rush.	980	32	33.6	+ 3.8	61°	5	4°	12	34°	1.58	- 1.52	0.56	4.5	6	12	sw.	Elwood Kirkwood.		
Monticello.	White.	674	2	35.0	+ 3.2	62	5	3	12	31	2.28	- 0.80	0.32	T.	3	18	5	w.	J. E. Loughry.	
Moore's Hill.	Dearborn.	980	11	36.6	+ 1.0	62	5†	14	12†	32	1.49	- 1.78	0.63	4.0	7	14	2	sw.	W. S. Bigney.	
Mount Vernon.	Posey.	410	26	36.6	+ 1.0	65	5	6	12†	35	1.30	- 1.44	0.55	1.0	7	22	1	sw.	Guy B. Green.	
Nashville.	Brown.	34.8	—	34.8	—	65	6	7	12	33	1.71	- 1.96	0.71	3.5	8	10	w.	W. C. Goble.		
Paoli.	Orange.	611	15	35.4	+ 2.7	66	1	8	12	33	1.71	- 1.46	0.65	1.0	4	19	3	sw.	James A. Gillum.	
Princeton.	Gibson.	481	30	36.0	+ 1.1	62	5	11	12	32	1.55	- 1.24	0.56	3.5	7	13	9	s.	Albert Mills.	
Richmond.	Wayne.	972	27	32.4	+ 3.0	60	5†	7	12	32	1.43	- 1.70	0.38	5	12	9	10	sw.	Walter Vossler.	
Rochester.	Fulton.	775	7	33.0	—	58	5†	3	12	31	1.14	- 1.70	0.47	T.	3	13	7	sw.	G. P. Keith.	
Rockville.	Parke.	722	26	35.0	+ 3.6	62	5	5	12	33	0.80	- 1.70	0.62	1.0	10	14	8	sw.	C. A. Lee.	
Rome.	Perry.	370	9	38.0	—	64	5†	12	12	33	2.09	- 1.70	0.70	4.0	8	9	10	sw.	Adam Ansپach.	
Salmonia.	Jay.	950	7	32.2	—	60	5	4	12	33	1.86	- 1.70	0.75	6.0	9	11	10	sw.	S. A. Armstrong.	
Salem.	Washington.	717	19	35.1	+ 2.3	63	5	8	12	33	3.05	- 0.44	0.75	6.0	6	12	9	w.	Emmet S. Allen.	
Scottsburg.	Scott.	570	18	36.4 ^a	+ 1.8	62 ^a	5†	11	12†	32	3.26	- 0.06	1.00	6.0	6	12	9	10	sw.	Frank H. Park.
Seymour.	Jackson.	610	25	36.2	+ 2.1	63	5	8	12	34	1.77	- 1.32	0.60	3.5	8	9	17	sw.	J. Robt. Blair.	
Shelbyville.	Shelby.	768	8	34.7	—	63	6	7	12	35	1.43	- 1.50	0.50	3.0	5	8	16	7	sw.	Edgar G. Hodson.
Shoals.	Martin.	523	5	34.5 ^a	—	55 ^a	17	11 ^a	13	30 ^a	1.46	- 1.60	0.60	2.0	5	17 ^a	2 ^a	sw.	Rev. G. Halleck Rowe.	
Terre Haute.	Vigo.	498	22	35.4	+ 1.8	62	5	8	12	33	1.10	- 1.53	0.60	T.	7	10	12	9	sw.	U. S. Weather Bureau.
Veiversburg.	Fountain.	612	13	35.2	+ 5.2	61	5	5	12	34	0.52	- 1.47	0.21	0.5	6	17	8	6	s.	L. A. Culver, Jr.
Vevey.	Switzerland.	525	31	38.5	+ 2.6	68	5	10	12	32	2.45	- 0.57	0.90	3.0	5	15	6	10	sw.	Miss Frederica Boerner.
Vincennes.	Knox.	431	20	36.2	+ 3.4	62	5	11	12	32	1.20	- 2.06	0.60	T.	5	21	2	8	s.	Garrett V. List.
Washington.	Davies.	484	16	35.8	+ 3.1	62	5	10	12	31	1.34	- 1.95	0.50	0.5	6	19	1	11	sw.	Charles C. Feagans.
Whitestown.	Boone.	529	4	32.0	—	59	5	5	12†	36	1.24	- 0.58	0.2	8	10	19	2	sw.	Clyde O. Laughner.	
Winona Lake.	Kosciusko.	865	5	33.0	—	59	6	3	12	33	1.19	- 0.53	0.6	6	9	14	8	s.	Rev. Albert A. Young.	
Worthington.	Greene.	526	30	35.7	+ 2.8	62	5	8	12	33	1.46	- 1.74	0.68	3.0	7	14	10	7	sw.	D. W. Soliday.
<i>Illinois.</i>																				
Albion.	Edwards.	531	21	37.2	+ 3.3	62	5	11	12	35	1.22	- 1.89	0.57	T.	5	19	4	8	w.	B. F. Michels.
Casey.	Clark.	645	9	34.9	+ 2.5	61	6	6	12	36	1.51	- 1.73	0.28	T.	3	18	9	4	nw.	Wm. Chenoweth.
Charleston.	Coles.	720	27	34.9	+ 2.5	61	5†	13	12	32	0.93	- 0.88	0.96	T.	7	12	9	10	sw.	Jacob B. Daisy.
Danville.	Vermilion.	604	11	35.4	+ 5.5	61	5	5	12	35	0.79	- 1.30	0.48	T.	6	16	6	9	sw.	J. J. Lemon.
Equality.	Gallatin.	421	14	39.9 ^b	+ 3.1	63 ^b	1†	13 ^b	12	32	2.93	- 2.38	0.30	3.0	6	22	2	7	n.	Dr. L. W. Gordon.
Fairfield.	Wayne.	450	19	37.0	+ 2.7	63	5	10	12	35	1.58	- 1.18	0.47	1.0	6	9	18	4	sw.	Geo. A. Tromly.
Flora.	Clay.	495	26	36.8	+ 2.8	64 ^a	5	9	12	35	0.81	- 1.88	0.34	T.	4	15	8	8	sw.	W. L. Hanna.
Golconda.	Pope.	500	34	38.0	+ 0.8	62	5	12	12	33	2.43	- 1.13	0.81	4.0	7	17	3	11	w.	Dr. D. Lawrence.
Hooperston.	Vermillion.	715	10	34.5	+ 5.7	59	5	3	12	32	0.70	- 1.57	0.30	0.2	7	16	7	5	sw.	S. F. Hoskinson.
McLeansboro.	Hamilton.	462	29	37.1	+ 1.4	63	7	11	12	35	0.93	- 2.01	0.38	T.	5	19	5	7	s.	Prof. W. C. Fairweather.
Metropolis.	Massac.	346	1	—	—	—	—	—	—	—	2.15	—	0.65	6.0	5	18	4	9	s.	Henry H. Humma.
Montrose.	Effingham.	599	2	33.8	—	62	5	6	12	40	0.83	—	0.42	T.	7	14	3	3	sw.	J. C. Spitzer.
Mount Carmel.	Wabash.	424	11	34.8	+ 1.3	62	5	12 ^a	12	33 ^a	1.10	- 2.16	0.58	T.	5	19	5	7	s.	Mrs. H. M. Phillips.
New Burnside.	Johnson.	613	17	37.6	+ 1.6	63	2	10	9†	36	1.39	- 1.71	0.56	3.8	6	23	1	7	se.	Thomas H. McCabe.
Newton.	Jasper.	484	1	—	—	—	—	—	—	—	0.76	—	0.36	T.	5	22	2	7	sw.	J. M. Hicks.
Olney.	Richland.	486	25	34.7 ^d	- 0.3	62 ^a	6	11 ^a	13	33 ^a	1.09	- 1.60	0.48	0	4	20	6	5	sw.	John T. Ratcliff.
Palestine.	Crawford.	500	30	36.5	+ 3.4	61	5	10	12	34	1.30	- 1.53	0.59	T.	6	19	4	8	s.	Duane Shaw.
Paris.	Edgar.	600	19	32.5 ^e	+ 3.2	56 ^e	1	6	12	39 ^e	0.68	- 1.59	0.34	T.	4	11	16	4	sw.	H. P. Twyman.
Philo.	Champaign.	700	28	32.7	+ 2.8	61	5	1	12	33	0.93	- 1.23	0.53	T.	5	16	9	6	sw.	H. A. Burr.
Rantoul.	...do.	768	21	33.9	+ 4.5	62	6	4	12	37	0.75	- 1.28	0.32	T.	5	16	5	10	sw.	William Breiner.
Rileyville.	Saline.	400	15	—	—	—	—	—	—	—	2.82	- 0.49	0.90	0.5	7	17	2	12	s.	W. H. Thornberry.
Shawneetown.	Gallatin.	307	2	—	—	—	—	—	—	—	1.70	—	0.40	4.0	7	13	9	13	sw.	Mrs. Mary O. Spivey.
Tuscola.	Douglas.	644	19	33.2	+ 4.3	58 ^a	1†	4	12	33	0.57	- 1.36	0.27	T.	6	16	8	7	sw.	Joseph O'Neal.
Urbana.	Champaign.	725	10	33.2	+ 4.3	58 ^a	1†	4	12	33	0.57	- 1.36	0.27	T.	4	9	16	6	sw.	Prof. J. G. Mosler.
<i>Kentucky.</i>																				
Alpha.	Clinton.	18	41.8	+ 1.4	67	5	14	13	34	4.91	+ 0.17	1.10	8.2	6	14	1	16	w.	W. W. Hicks.	
Anchorage.	Jefferson.	700	11	37.4	+ 4.6	67	1	10	12†	40	3.00	- 0.80	0.79	3.0	7	18	2	11	nw.	C. E. Barrett.
Bardstown.	Nelson.	637	15	38.0	+ 1.7	65	1†	11	13	38	4.43	+ 0.32	1.28	7.0	10	15	6	10	se.	T. S. Talbott.
Beattyville.	Lee.	650	8	36.0	+ 1.4	71	1	5	13	47	5.44	- 1.18	1.34	9.0	13	10	7	14	w.	G. W. Cann.
Beaver Dam.	Ohio.	441	9	37.8	+ 1.8	65	1	12	13	37	2.35	- 1.37	0.73	4.0	7	18	3	10	s.	W. T. Austin.
Berea.	Madison.	1,070	11	38.2	+ 2.3	67	1	10	13	33	6.33	+ 2.35	1.33	8.2	7	20	4	7	sw.	C. F. Rumold.
Berea.	Ballard.	445	31	39.4	+ 2.6	64	5	15	9	31	2.14	- 1.81	0.71	5.2	9	17	2	12	nw.	E. W. Horr.
Blandville.	Warren.	500	23	36.8	- 1.5	64	5	11	13	32	4.89	+ 0.72	1.35	7.0	10	13	2	16	s.	Mrs. L. G. Causey.
Burnside.	Pulaski.	773	21	—	—	64	1†	13	12	32	2.96	- 0.90	1.00	6.0	11	9	13	9	sw.	G. M. Estes.
Calhoun.	McLean.	397	9	39.5	+ 1.2	64	1†	13	12	32	3.64	- 0.25	0.98	6.0	12	15	1	15	n.	W. A. Taylor.
Catlettsburg.	Boyd.	544	23	—	—	61	10	10	13	41	2.53	- 1.33	0.78	5.0	6	15	1	15	s.	Mrs. Mertie M. Bruns.
Earlington.	Hopkins.	370	22	37.4	- 1.8	65	1	10	13	38	3.10	- 0.12	1.25	2.5	9	13	6	12	sw.	Brick Southworth.
Edmonton.	Metcalfe.	600	21	37.2 ^a	- 0.4	64 ^a	5†	10 ^a	13	38 ^a										

TABLE 1.—Climatological data for December, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.						
<i>Tennessee.</i>																				
Ashwood.	Maury.	725	33	41.1	+ 0.1	66	5	16	13	32	5.02	+ 1.06	1.20	0.5	10	11	5	15	s.	
Benton.	Polk.	880	27	42.1	+ 0.6	71	6	16	14	38	5.61	+ 1.39	1.53	T.	11	9	6	16	n.	
Birds Bridge.	Greene.	6									2.45		0.50	0	12	3	16	e.		
Bluff City.	Sullivan.	15									2.77	— 0.40	0.55	0.5	10	7	7	17	e.	
Byrdstown.	Pickett.	1,020	19	40.0	+ 1.2	67	5	13	13	30	4.23	+ 0.02	0.85	1.5	10	7	7	17	s.	
Carthage.	Smith.	500	28	41.0	+ 1.3	69	3	12	13	44	5.70	+ 1.81	1.49	2.0	10	7	2	22	nw.	
Cedar Hill.	Robertson.	625	12	38.8	- 0.7	69	5	13	13	32	6.44	+ 2.51	1.30	6.0	11	16	3	12	w.	
Celina.	Clay.	494	9								5.69		1.05	3.3	11	9	1	21	sw.	
Charleston.	Bradley.	709	15								7.75	+ 3.43	2.30	0	11	8	3	20	n.	
Chattanooga.	Hamilton.	808	33	42.7	+ 0.1	68	6	23	12	30	7.26	+ 2.90	2.51	T.	15	9	6	16	ne.	
Clarksville.	Montgomery.	500	49	40.2	+ 0.8	66	1	15	13	34	5.25	+ 0.82	1.45	7.5	12	16	4	11	s.	
Clinton.	Anderson.	800	24								6.82	+ 2.36	1.73	T.	10	11	0	20	sw.	
Crossville.	Cumberland.	1,895	38.6								6.88		1.87	0.7	16	15	7	9	J. E. Converse.	
Dandridge.	Jefferson.	8									4.30		1.10	0	12	8	9	14	w.	
Decatur.	Meigs.	850	16	40.0	+ 0.5	69	6	15	13	40	7.37	+ 2.03	2.00	T.	14	13	3	15	James E. Swann.	
Dickson.	Dickson.	800	16	39.9	+ 1.7	71	1	10	13	36	6.03	+ 1.96	1.72	3.5	11	12	6	13	J. Worth Lillard.	
Dover.	Stewart.	500	17	39.9	+ 0.7	69	1	11	13	39	3.87	- 0.53	0.78	5.0	7	14	7	10	Nathan R. Sugg.	
Dunlap.	Sequatchie.	720	3	40.5		69	6	16	14	39	6.34		1.75	0	14	11	1	19	Ass M. Tippit.	
Elizabethhton.	Carter.	1,575	22								2.11	- 1.10	0.50	0.1	11	10	1	20	S. Bradford Boyd.	
Erasmus.	Cumberland.	1,850	15	36.1	+ 0.6	64	3	5	13	45	5.67	+ 0.30	1.36	0.4	12	10	9	12	Charles Boyd.	
Florence.	Rutherford.	560	30	40.6	0.0	66	5	14	13	34	5.31	+ 1.42	1.44	2.0	9	14	6	11	Mrs. Sarah E. Ashley.	
Franklin.	Williamson.	648	22	39.2	- 0.5	66	6	13	13	33	5.50	+ 0.92	1.40	1.5	10	16	4	11	Erastus P. Bell.	
Halls Hill.	Rutherford.	10									6.28		1.55	0.1	9	12	3	16	Young M. Rizer.	
Hohenwald.	Lewis.	983	26	40.6	+ 1.1	64	4†	13	13	35	8.29	+ 3.26	2.19	T.	10	11	9	11	Edward Wright.	
Iron City.	Lawrence.	600	15	40.4	+ 0.3	67	5	13	13	36	6.35	+ 0.79	1.40	0	6	7	13	Mrs. Mary Lutzelman.		
Jefferson City.	Jefferson.	2									4.57		1.30	0	12	9	7	9	Capt. H. Paul Seavy.	
Johnson City.	Washington.	1,620	1	38.0	+ 0.5	70	5	14	13	42	4.95	- 1.53	0.58	0.5	10	15	7	9	Calvin C. Maddox.	
Johnsonville.	Humphreys.	364	16	40.2	+ 0.8	65	1†	12	13	38	4.64	+ 0.44	1.07	3.5	11	12	6	13	Ward Crosby.	
Kingston.	Roane.	21									7.86	+ 3.86	1.80	0	11	12	6	13	Miss Sallie B. Mathews.	
Knoxville.	Knox.	977	41	39.7	0.0	70	6	18	13	30	6.42	+ 2.26	2.05	0.8	13	9	8	14	Henry Crumbliss.	
Lebanon.	Wilson.	522	3	41.1		66	1†	10	25	40	5.16		1.15	3.7	10	9	5	17	U. S. Weather Bureau.	
Lewisburg.	Marshall.	727	17	40.8	+ 0.1	67	5	12	13	38	6.48	+ 2.16	2.52	T.	10	13	4	14	H. Logan Fields.	
London.	London.	816	9								7.11	+ 3.07	1.91	T.	10	9	2	10	Robert D. Crutcher.	
Lynville.	Giles.	770	24	40.5	- 0.6	66	4†	11	13	29	5.65	+ 1.15	2.05	0	6	12	6	13	Robert W. Clark.	
McGhee.	Mouree.	8									6.72		1.80	0	12	14	0	17	Col. James H. Burrow.	
McMinnville.	Warren.	1,011	28	42.0	+ 1.5	69	5	14	13	39	5.76	+ 1.37	1.60	T.	9	11	7	13	Miss Alice L. Headrick.	
Maryville.	Blount.	1,050	16	39.8	+ 0.2	69	6	18	12	31	6.15	+ 1.25	1.53	0	6	8	8	Horace H. Stiles.		
Mountain City.	Johnson.	2,480	15	36.9	+ 2.9	71	5	2	28	47	1.97	- 1.85	0.50	3.5	7	9	14	Edward E. Barry.		
Nashville.	Davidson.	654	41	40.4	- 0.7	66	5	16	13	31	5.14	+ 1.32	1.49	3.5	13	11	6	14	U. S. Weather Bureau.	
Newport.	Cooke.	1,280	22								3.83	+ 0.35	1.10	T.	11	10	3	18	Dr. Chas. T. Burnett.	
New River.	Scott.	1,215	5								4.98		1.25	0	8	15	1	15	Burl W. Buttram.	
Palmetto.	Bedford.	770	19	41.2	+ 0.4	66	5	14	13	34	6.24	+ 1.77	1.15	T.	11	10	7	14	Mrs. Ross Woods.	
Perryville.	Decatur.	387	15	40.8		65	5	12	13	36	6.63	+ 1.51	1.73	0	8	15	1	15	Oliver C. Kirksey.	
Pinewood.	Hickman.	5									6.72		1.80	0	12	14	0	17	Miss Carrie Cash.	
Rogersville.	Hawkins.	1,150	27	38.8	+ 1.1	67	6	13	13	36	4.32	+ 0.80	1.05	T.	13	11	8	12	Fred Beal.	
Rugby.	Morgan.	1,410	24	37.7	+ 0.3	66	6	13	13	41	6.22	+ 1.86	1.45	3.0	12	9	9	13	Samuel G. Wilson.	
Savannah.	Hardin.	442	28	42.1	+ 0.2	65	5	15	13	34	8.17	+ 3.56	2.55	T.	12	9	9	13	W. H. Carrington.	
Sevierville.	Sevier.	6		38.8		68	19	15	13	38	4.02		1.20	0	10	6	3	22	Herbert O. Eckel.	
Sewanee.	Franklin.	2,000	16	42.5	+ 4.3	63	5	16	12	32	4.27	- 0.48	2.00	0	5	11	8	12	University of South.	
Sparta.	White.	920	6	39.7		68	5	12	13	38	3.85		1.20	0	5	13	6	12	Ernest H. Hull.	
Springville.	Henry.	377	9	39.2	- 0.2	65	2	12	25	39	4.30	- 1.38	1.11	2.8	12	19	3	9	Hudnall A. Boden.	
Tazewell.	Clairborne.	1,350	15	34.6		67	6	8	13	42	7.23	+ 2.74	1.48	0.5	11	9	2	20	J. Caloway Carr.	
Tullahoma.	Coffee.	1,075	24	40.6	+ 1.0	66	5	15	13	35	6.60	+ 1.29	1.67	0.2	12	6	17	Reuben T. Moore.		
Walling.	White.	909	9								6.16		1.60	T.	11	10	4	17	John K. Roberts.	
Waynesboro.	Wayne.	753	26	40.7	+ 0.1	65	5	12	13	36	8.61	+ 4.30	2.33	0.2	10	6	14	11	Harry C. Boyd.	
Wildersville.	Henderson.	400	15	42.8	+ 2.8	69	2	15	13	41	4.26	- 0.64	1.21	0.5	9	15	3	13	William R. Wilson.	
Worsham.	Sumner.	550	11								6.73	+ 1.14	1.70	6.0	10	12	3	16	James G. Elizer.	
Yukon.	Lincoln.	850	15	40.9	+ 0.3	65	5†	16	13	32	6.53	+ 1.37	1.80	0	8	13	6	12	William P. Watson.	
<i>Georgia.</i>																				
Diamond.	Gilmer.	2,020	20	42.1°	+ 1.4	66	5	19	14	30	4.61	- 0.97	1.10	0	12			R. A. Kimzey.		
<i>North Carolina.</i>																				
Altapass.	Mitchell.	2,629	24								3.87	- 0.54	0.75	0.75	0	9	9	13	Altapass Inn.	
Andrews.	Cherokee.	1,800	2	42.0		70	6	14	14	41	4.83		1.51	0.31	0.3	8	11	7	13	J. D. Link.
Asheville.	Buncombe.	2,255	33	39.9	+ 2.1	66	5	14	13	33	0.90	- 3.16	0.30	3.0	9	13	15	U. S. Weather Bureau.		
Banners Elk.	Avery.	3,750	4	34.6		62	5	6	25	38	1.52		0.30	0	7	10	10	T. L. Lowe.		
Blantyre.	Transylvania.	1,900	40	40.1		71	6	11	13†	45	2.11		1.04	0	7	10	11	R. W. Collett.		
Blowing Rock.	Watoga.	4,090	3	35.8		60	6	7	25	39	2.62		0.70	5.0	7	18	7	6	Herman S. Deal.	
Brevard.	Transylvania.	2,230	11	39.0	+ 1.4	66	2	11	14	32	3.74		1.47	0	10	9	4	W. E. Breese.		
Bryson City.	Swain.	2,000	24								3.87	- 0.54	0.75	0	9			D. K. Collins.		
C																				

TABLE 1.—*Climatological data for December, 1912. District No. 8—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.	
				Mean	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.		
<i>Virginia.</i>																	
Blacksburg.....	Montgomery.....	2,170	21	35.4	+ 1.4	65	5†	8	20	40	2.50	- 0.12	0.47	5.5	9	w.	Agri. Experiment Sta.
Burkes Garden.....	Tazewell.....	3,250	17	33.6	+ 2.4	64	5	5	25	48	2.23	- 1.56	0.70	2.0	5	w.	C. H. Greever.
Elk Knob.....	Lee.....	3,243	9	38.4	+ 3.7	64	5	11	12	28	4.90	+ 0.44	1.30	2.0	11	sw.	Henry Nicoll.
Ivanhoe.....	Wythe.....	2,028	8	.....	.....	66	5	12	13	32	1.92	.....	0.56	3.0	11	w.	Miss Alice G. Jewett.
Lebanon.....	Russell.....	2,131	2	36.6	.....	73	5	6	25	42	.....	.....	4.0	10	18	.....	R. D. Swain.
Max Meadows.....	Wythe.....	2,028	16	35.8	+ 1.0	70	5	6	25	40	1.27	- 0.69	0.52	3.0	5	.....	James M. Graham.
Mendota.....	Washington.....	1,350	3	.....	.....	70	5	6	25	40	4.40	.....	1.00	3.0	10	.....	Frank M. Barker.
Mountain Lake.....	Giles.....	4,348	2	30.4	.....	63	6	6	12	37	2.41	.....	0.70	8.0	7	e.	H. E. Dorland.
Radford.....	Montgomery.....	1,773	3	.....	.....	.....	.....	.....	.....	2.34	.....	0.60	4.0	8	.....	Arthur Roberts.	
Speers Ferry.....	Scott.....	1,221	16	.....	.....	.....	.....	.....	.....	5.87	+ 1.28	1.66	2.0	11	.....	Mrs. L. E. Venable.	
Wytheville.....	Wythe.....	2,293	19	36.4	+ 1.1	66	5	11	26	31	1.61	- 2.13	0.55	5.0	10	w.	U. S. Weather Bureau.

*, b, o, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for December, 1912. District No. 3, Ohio Valley.*

Stations.	Watershed.	Day of month.																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.		
New York.																																			
Allegany.	Allegheny.	.63					.50	.01	.05		.20		.15				.06		.05	.25	.05	.05			.01			.18	.12	.95		3.26			
Bolivar.	do.	.18	.52				.33			.06		.05		T.	.11	.04		T.	.15	.05	.08		.15	T.		.15	.20		.10	.40	2.56				
Olean||.	do.																																		
Pennsylvania.																																			
Aleppo.	Ohio.	.44	1.00				T.		T.	T.			T.				.05		T.	T.		T.			.34		.32		.60		2.81				
Baldwin.	Allegheny.	.60					T.		T.	T.			T.				.05		T.	T.		T.			.15		.20		.05		1.70				
Beaver Dam ||.	Ohio.	.26	.16				.61	T.	T.	T.			.01				.03		T.	.08	.03	T.			.20		.26		.02		2.10				
Beaver Falls ||.	do.	.24	.20				.80	T.					.01				.05		T.	T.	.04	.02			.25		.24		.03		2.36				
Brookville.	Allegheny.	.07	.02				.85						.03				.05		.01	.01	.02				.40		.30		.05		2.14				
California.	Monongahela	.34					T.	.50									.01	T.	.10	T.	.05				.61						2.06				
Cheat Haven.	do.	.44					T.	.07	.34				T.				.10		T.	.36	.15	T.			.21		T.	.28	T.		.48		2.33		
Clarion ||.	Allegheny.	.20	.25				.60						.10				.10		T.	.36	.10	T.			.25		.30		.20		2.50				
Claysville.	Ohio.	.48					T.	.77	T.	T.							T.	T.	.25	T.				.35		.38				.48		2.71			
Confluence ||.	You'og'ny.	.06	.21				.13	.27	T.	T.							T.	T.	.16	T.				.40	T.	.27	.16		.22		2.48				
Corapolis ||.	Ohio.	.23	.15				T.	1.02	T.	T.							.02	T.	T.	.16	.02				.38		.24		.01		2.70				
Davis Island Dam ||.	do.	.28	.13				T.	1.00	T.	T.			.02				T.		T.	.23	.09	T.			.35	T.	.26	.04		.23		2.91			
Derry St tion.	Allegheny.	.38					.66	.01									.04		T.	.02	.03	T.			.40		.03		.05		2.42				
Ellwood City ||.	Ohio.	.38	.18				.73	T.	T.								.09	T.	.15	T.	.10	T.			.16		.25		.05		3.33				
Franklin ||.	Allegheny.	.32	.34				.93						.03				.07	T.	.47	T.	.02	T.			.38	T.	.34	.08		.40		2.56			
Freeport ||.	do.	.30	.02				1.24	.02	T.	T.							.04	T.	.32	.01	T.			.40		.60		.10		3.0		2.76			
Greensboro ||.	Monongahela	.10	.24				.50										.03	T.	.10	T.	.05	T.			.45		.30		.05		2.52				
Greensburg.	You'og'uy.	.43					.68	.01					.01				T.	.12		T.	.04	T.			.16		.41	T.	.83	T.	3.01				
Greenville.	Ohio.	.39					.84						.10				.04	T.	.05	T.	.02	T.			.15		.32	T.	.62		2.82				
Grove City.	do.	.44	.01				.77						.02	T.			.03	T.	.32	.01	T.			.30	T.	.24	.03		.21		2.87				
Herrs Island Dam ||.	Allegheny.	.25	.12				T.	1.12	T.	T.			.01				.12	.06		.05				.24		.22		.07		2.42					
Indiana.	do.	.70					.76	T.	T.								.05	T.	T.	T.				.30	T.	.40									
Irwin.	Monongahela	.43					.76	T.	T.								.01	T.	.20	T.	.15	T.			.36		.01	.59	.06	.63		3.33			
Johnstown.	Allegheny.	.45					.23	.40	.01		.07						.01	T.	.04	T.	.02	T.			.30	T.	.25	.25		.23					
Lock No. 4 ||.	Monongahela	.23	.21				.64											T.	.11	T.						.25	T.								
Lyciups.	Allegheny.	.60					.60	.04									.03	T.	.21	T.					.30										
Mosgrove.	Ohio.	.31	.27				1.05	T.					.03				.02	T.	.40	T.					.28		.03		.32		2.92				
Parkers Landing ||.	Allegheny.	.40	.28				.92	T.	T.				.05				.04	T.	.02	.18	.25	T.			.30		.02		.05		3.70				
Pittsburgh.	Ohio.	.31	.87				.26	.01									.01	T.	.35	.03	T.			.09		.22	T.	.28	T.	.03		2.86			
Saegerstown.	Allegheny.	.38					.58						.01	T.			.08		.21	.04	T.			.42		.06		.80		2.71					
Saltsburg ||.	do.	.20	.11				.62						.01	T.			.04	T.	.26	.03	T.			.34		.05		.10		2.62					
Sharon ||.	Ohio.	.15	.05				.85						.05	T.			.02	T.	.09	T.				.10	T.	.23	.04	.44		4.72					
Somerset.	You'og'uy.	.71					.43						.05	T.			.07	T.	.21	T.				.75		.60		.89		3.44					
Springdale ||.	Allegheny.	.30	.10				1.20						.03	T.			.06	T.	.50	.02	T.			.34		.30		.07		2.08					
Unioントown.	Monongahela	.44					.40											T.	T.						.40		.13		.51						
Warren.	Allegheny.	.84					.40						.06					T.	.20						.26										
West Newton ||.	You'og'ny.	.10	.26				T.	.56	T.	T.								T.	T.	.14	T.			.60		.35		.02	T.	.30		2.68			
Maryland.																																			
Deer Park.	You'og'ny.						.44	.37											.05		.10					.60									
Grantsville.	do.	.75					.30	.23										.05		.08					.100		.50		.80		3.76				
Oakland.	do.	.26					.46	.41										.07	T.	.05	.30				.70		.38		.67		3.40				
West Virginia.																																			
Bancroft ||.	G. Kanawha	.24	.10				.24	.45												.03	*	.02				.65		.35		.67		2.90			
Beckley.	do.	.25					.40											T.							.30		.30								
Bear Run.	Ohio.	.47					.65	.28	T.									.02	T.	.20	.05				.35		.50						3.27		
Bluefield.	G. Kanawha	.50					.40												.16							.65									
Brandonyville ||.	Monong'h'a.	* *					.55											T.																	
Buckhannon.	do.	.45					.15											T.																	
Cairo.	L. Kanawha	.52					.16	.72										T.																	
Central Station.	Mid. Is. Cr'k	.80					.03	.09	.38	T.								T.																	
Charleston ||.	G. Kanawha	.02	.25				.22	.33	.30									T.																	
Crest Bridge.	Monong'h'a.	.11	.16				.14	T.	.34									T.																	
Cortland ||.	do.	.35					.35												.01		.29	T.				.47									
Creston ||.	L. Kanawha	.48					.28	.48											.16		.05	T.				.60									
Cuba.	Sand Creek.	.61					.66	.21	T.										.04		.09	T.				.60									
Davis ||.	Monong'h'a.	.08					.48	.09	.38									T.								.44									
Doone.	Big Sandy.	.49					.35	.24	.21									T.								.42									
Elizabeth ||.	L. Kanawha	.45	.33				.15	.72										T.								.35									
Elkhorn.	Big Sandy.	.60					.30											T.								.41									
Fairmont ||.	Monong'h'a.	.14	.48				.03	.46	T.									T.								.10		.37	T.	.40	T.		2.87		
Glenville ||.	L. Kanawha	.07	.33				.30	.70										T.								.40		.35		.26		3.27			
Grafton.	Monong'h'a.	.68					.40	.50																											

TABLE 2.—*Daily precipitation for December, 1912. District No. 8—Continued.*

TABLE 2.—*Daily precipitation for December, 1912. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for December, 1912. District No. 9—Continued.*

TABLE 2.—*Daily precipitation for December, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																														Total.								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
<i>North Carolina—Continued.</i>																																								
Murphy ||	Tennessee	.13	.23	.19	1.12	.37					.02	T.	.09	.03						.51	.02			.02	.70			.34				.60	.04	4.41						
Rock House	Savannah	1.30		.90	.96		T.				T.	.02								.15	.43		T.	T.	.66								1.40	6.20						
Transon	Gt. Kanawha	.14		.22	.21	.12														.24			T.	T.	.50									.50	2.13					
Waynesville ||	Tennessee	.13	.24	.29	.33	.36						T.	.04								.34					.10				.19	T.	.85	2.87							
<i>Virginia.</i>																																								
Blacksburg	Kanawha	.12		.30	.24																													.47	2.50					
Burkes Garden	Tennessee	.45		.70	.25						T.									T.	T.			T.	T.									.63	2.23					
Elk Knob	do	.51	1.30	.79	.18	T.						.06								.17	.40	T.													4.90					
Ivanhoe ||	Kanawha	T.	.08	.20	.14	.56					T.		.05								.03	.01																		
Max Meadows	do	.10		.17	.08						T.									T.															.10	1.92				
Mendota ||	Tennessee	.25	1.00	.35																.20																.50	1.27			
Mountain Lake	Kanawha	.20		.40																																		.30	2.40	
Radford ||	do	.60	.50	.10	.16															T.	.12																	2.34		
Speers Ferry ||	Tennessee	.58	1.10	1.66	.35						T.		.10	.04							.40																			
Wytheville	Kanawha	.09		.45	.06						T.		T.								.02	T.	T.																	1.61

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures for December, 1912. District No. 3.*

Date.	Pennsylvania.				West Virginia.										Ohio.													
	Greenville.		Pittsburgh.		Charleston.		Elkhorn.		Elkins.		Glenville.		Huntington.		Morgan-		Parkers-		Wheel-		Canton.		Cincinnati.		Columbus.		Dayton.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	53	21	56	34	64	32	59	31	57	23	68	23	63	25	59	30	62	30	57	26	56	26	64	41	58	39	59	41
2....	58	37	60	40	65	42	65	32	59	40	62	40	62	34	58	50	61	42	63	27	56	36	58	38	57	38	55	36
3....	39	35	42	36	66	40	64	38	57	33	59	40	54	40	56	34	53	38	44	39	38	32	49	38	44	36	43	35
4....	54	29	55	36	58	42	63	37	54	33	56	32	55	40	54	34	56	37	55	32	55	31	57	39	53	37	56	38
5....	57	31	60	48	74	52	70	41	71	48	76	49	71	42	67	47	67	51	69	36	58	34	65	52	61	50	62	49
6....	61	32	62	34	69	57	66	—	65	39	70	54	63	51	64	55	65	34	59	40	59	29	61	30	59	27	60	29
7....	39	29	37	29	60	33	58	—	42	26	55	30	42	32	57	32	41	32	42	32	39	28	42	31	38	27	40	28
8....	37	17	38	16	46	32	46	—	42	22	50	25	47	30	40	29	41	25	40	29	35	16	40	23	38	16	37	20
9....	27	17	26	14	34	20	58	—	28	14	40	15	32	20	38	12	30	16	31	15	28	11	33	18	29	14	28	14
10....	43	24	45	24	51	21	48	—	51	14	52	15	48	20	45	22	48	26	46	15	41	23	43	28	41	23	41	24
11....	40	16	40	22	51	40	47	36	36	25	50	27	43	28	46	35	44	24	39	29	38	15	36	19	36	15	34	13
12....	21	11	22	12	44	15	40	—	25	11	40	13	25	17	37	11	24	14	21	13	18	9	23	13	20	10	19	8
13....	33	8	33	13	40	14	40	—	40	8	41	7	37	14	34	9	37	13	35	13	34	10	43	15	39	13	40	13
14....	44	21	45	29	50	18	49	—	48	23	53	17	47	17	45	21	47	30	48	18	43	24	49	29	46	26	46	28
15....	46	22	50	34	52	25	52	—	55	15	58	15	54	23	52	30	54	25	48	22	46	28	54	34	50	31	50	33
16....	42	33	41	35	55	27	60	29	42	29	60	16	49	28	49	37	48	37	51	23	40	36	50	30	45	38	46	33
17....	47	33	50	37	51	33	59	34	49	26	50	26	53	28	49	35	53	32	49	25	46	34	50	41	47	36	53	40
18....	48	28	50	34	54	22	62	—	58	36	57	41	55	35	58	42	55	34	47	33	46	31	41	31	45	29	40	23
19....	34	25	34	26	56	25	60	—	36	25	50	28	35	32	52	25	36	29	39	28	31	25	34	28	30	26	25	25
20....	36	24	39	27	50	28	45	—	42	22	50	20	48	27	41	24	47	27	44	28	38	24	47	30	42	28	41	27
21....	31	22	39	24	39	20	41	—	37	24	49	21	35	28	38	25	38	27	36	28	35	20	35	24	29	21	29	20
22....	37	15	36	20	38	19	40	—	36	16	52	23	37	19	46	18	41	15	40	16	35	16	42	19	38	20	37	20
23....	33	20	37	23	40	19	37	—	35	11	49	12	36	18	36	17	36	18	37	16	32	14	36	22	35	23	34	17
24....	34	21	35	27	40	28	34	—	32	25	43	22	45	14	34	21	36	25	38	19	33	23	36	26	37	23	38	23
25....	42	21	42	26	40	13	37	19	49	11	52	4	45	13	42	25	44	15	45	26	41	23	45	24	41	20	40	22
26....	45	26	45	25	42	18	50	—	41	1	45	5	40	12	49	19	44	15	44	15	46	20	45	26	44	26	42	29
27....	40	30	42	28	44	30	44	—	40	24	41	29	35	15	43	27	42	28	34	17	36	22	34	21	34	21	34	21
28....	35	19	34	22	45	22	40	—	38	18	44	21	41	21	34	21	40	21	38	22	35	18	48	21	41	20	42	19
29....	42	18	46	31	48	34	50	—	41	11	47	12	48	21	48	31	47	29	47	22	46	24	56	34	42	31	41	33
30....	39	33	45	36	52	36	47	—	49	34	50	35	47	27	49	39	48	39	47	23	39	33	45	36	42	34	40	34
31....	46	30	50	36	50	28	55	—	58	21	52	26	63	34	51	32	53	29	46	31	50	35	44	32	44	33	44	33
Mns..	41.4	24.1	43.1	28.4	50.7	29.3	51.2	29.2°	45.5	22.8	52.5	23.5	46.6	25.8	47.8	29.0	46.3	27.7	44.8	24.4	40.9	24.2	45.5	28.9	42.1	26.8	41.9	27.0

Date.	Ohio.				Indiana.										Kentucky.														
	Marion.		Waverly.		Butlerville.		Evansville.		Indianapolis.		Kokomo.		Rockville.		Worthington.		Philo, Ill.		Beattyville.		Bowling Green.		Earlington.		Greensburg.		Lexington.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1....	58	32	64	34	62	40	62	45	57	43	58	40	60	45	60	42	61	41	71	24	62	38	65	45	66	28	64	40	
2....	58	38	60	43	61	31	58	35	56	35	56	36	57	35	60	39	55	25	65	34	56	30	50	45	52	44	38		
3....	40	33	52	39	48	32	50	32	44	34	44	32	47	24	58	25	65	37	66	26	56	28	59	24	60	23	55	47	
4....	55	31	58	33	58	38	57	43	54	40	54	33	56	35	57	34	60	38	63	47	62	35	62	26	55	47	64	54	
5....	58	38	67	50	63	47	63	53	61	49	59	39	62	47	62	49	59	46	66	45	64	40	69	45	64	54	64	54	
6....	59	29	62	37	60	29	59	31	59	27	59	25	59	26	60	29	56	25	65	55	66	36	41	31	54	55	60	30	30
7....	38	28	42	28	44	33	39	26	38	18	40	20	41	25	40	18	60	27	43	28	46	22	45	35	41	29	41	29	
8....	38	24	42	28	39	31	41	21	37	17	36	22	37	27	38	28	39	20	49	29	46	28	48	24	41	24	41	24	
9....	30	10	37	14	32	13	32	17</td																					

TABLE 3.—*Maximum and minimum temperatures for December, 1912. District No. 3—Continued.*

Date.	Kentucky.						Tennessee.										Decatur, Ala. §§	Asheville, N. C.	Virginia.											
	Louisville.		Maysville. §§		Williams- burg. §§		Chatta- nooga.		Johnson City.		Knoxville.		Nashville.		Palmetto.		Sparta.		Waynes- boro.											
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.						
1....	65	42	69	23	68	18	54	39	62	20	59	34	63	46	63	42	59	24	61	49	60	26	51	38	53	26	53	30		
2....	56	38	59	39	63	28	64	47	61	43	59	44	58	39	60	39	62	42	63	39	63	51	58	41	55	38	59	39		
3....	53	38	56	39	65	30	54	42	60	43	54	36	60	33	63	32	55	29	62	31	65	41	63	38	55	33	60	32	51	34
4....	59	45	58	37	61	31	63	50	55	44	57	49	62	48	63	55	63	48	62	53	66	44	62	46	50	32	52	31	51	38
5....	65	54	72	41	68	53	67	59	70	49	66	54	66	62	66	60	68	48	65	53	67	57	66	57	65	47	66	49		
6....	62	32	59	52	67	59	68	53	67	51	70	48	62	35	65	45	66	49	61	41	65	60	66	52	65	50	64	47		
7....	44	32	46	39	50	31	55	44	52	42	49	42	44	33	49	35	59	35	47	35	56	42	57	42	50	38	49	39		
8....	42	25	44	30	48	30	52	37	48	33	47	33	46	27	46	29	46	26	46	26	50	32	52	36	48	33	45	33		
9....	33	19	36	12	41	25	43	27	39	28	38	29	36	22	42	23	42	25	41	29	38	24	37	25	39	22	34	21		
10....	41	28	46	12	48	18	46	28	45	21	46	24	42	26	42	24	43	30	43	26	47	22	48	18	48	19				
11....	37	20	40	24	40	25	43	33	38	20	43	32	40	30	41	33	47	21	41	33	44	28	41	35	41	35	39	33		
12....	25	14	26	12	31	13	35	23	30	20	32	21	30	20	33	19	36	19	33	20	33	25	35	18	37	16	33	16		
13....	43	17	42	19	41	11	45	23	43	14	42	18	41	16	44	14	41	12	45	12	42	21	44	14	41	19	41	13		
14....	49	30	52	13	42	11	47	25	50	15	48	21	49	23	51	21	49	16	52	18	50	20	49	19	50	20	49	25		
15....	54	37	57	21	62	12	58	28	52	18	55	25	59	31	58	26	57	22	60	25	59	21	54	21	56	16	51	22		
16....	51	31	55	23	60	22	57	31	57	21	55	30	59	28	61	27	60	22	59	26	60	27	59	33	52	30	51	31		
17....	58	43	51	22	53	23	54	42	56	26	44	30	59	46	55	47	63	37	60	42	55	31	60	42	59	25	57	30		
18....	44	33	47	35	63	43	60	38	60	40	59	36	50	33	55	37	56	35	53	40	56	49	57	36	54	35	55	39		
19....	39	30	36	29	55	30	46	34	35	36	41	32	43	32	54	28	46	31	46	24	46	28	36	26	46	25	39	26		
20....	49	31	49	25	50	27	54	36	40	20	49	32	54	36	52	30	52	26	55	30	52	28	48	20	45	21	42	26		
21....	38	26	36	20	43	25	43	34	46	20	41	29	37	30	47	31	40	23	55	24	48	31	44	27	44	21	43	26		
22....	43	23	46	12	47	17	36	33	36	21	36	29	40	29	36	25	47	25	39	35	38	28	35	21	34	22				
23....	36	27	36	15	50	18	36	31	35	24	36	28	37	30	35	29	36	26	37	31	40	32	35	27	36	17	32	20		
24....	35	26	34	19	53	21	45	31	40	25	43	31	34	26	41	27	45	23	44	30	43	30	35	27	35	17	34	24		
25....	44	27	45	13	57	24	51	25	50	20	48	24	47	21	51	22	53	18	50	20	52	23	48	19	47	9	43	12		
26....	46	30	44	13	46	26	52	34	45	25	42	28	50	34	52	30	52	23	52	27	53	25	45	31	44	8	38	11		
27....	38	24	34	14	37	31	46	31	50	25	42	28	39	29	43	28	53	25	48	28	43	32	41	25	39	9	38	22		
28....	49	22	45	19	41	16	45	25	45	25	45	22	50	23	50	22	47	18	55	19	49	22	47	21	40	18	39	19		
29....	40	34	45	19	51	17	47	30	52	20	41	28	44	32	45	31	47	25	45	28	48	24	46	23	40	12	40	16		
30....	46	37	47	27	50	22	50	36	38	31	49	33	50	39	50	38	48	31	52	33	50	40	53	31	45	11	50	33		
31....	50	38	52	27	51	25	48	33	42	26	47	30	53	38	52	36	56	25	55	32	52	35	50	29	46	24	41	28		
Mns..	46.3	30.7	47.2	23.7	51.7	25.2	50.5	34.9	48.4	27.7	47.8	31.6	48.5	32.2	50.5	31.9	51.7	27.7	51.2	30.2	51.2	32.6	49.2	30.6	47.1	23.7	45.7	27.2		

*^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3 etc., days missing from the record.
 §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.